

### ABSTRACT

A power back-off system and method to mitigate far-end crosstalk interference between channels in a communication system through a generalization of the reference length and equalized FEXT methods, a power back-off method is provided that allows for control over the SNR of the channels by trading SNR on shorter channels against SNR on the longer channels. The generalization also provides for a power back-off method that can provide for two or more data rate service areas.